



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

**OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION**

January 12, 2023

Ana Vida Alcala, Ph.D.
Senior Regulatory Manager
Valent U.S.A. LLC
4600 Norris Canyon Road
San Ramon, CA 94583

Subject: PRIA Label Amendment – addition of seed treatment use on alfalfa
Product Name: AP2 Fungicide
EPA Registration Number: 59639-186
Application Date: July 22, 2021
Decision Number: 577417

Dear Ana Vida Alcala:

The application referred to above, submitted under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable under FIFRA section 3(c)(5).

You must submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

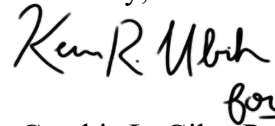
Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Elisha Graham at graham.elisha@epa.gov.

Sincerely,

Handwritten signature of Ken R. Ubih in black ink.

^{for}
Cynthia L. Giles-Parker,
Chief Fungicide Branch
Registration Division

Enclosure – stamped “accepted” label



ETHABOXAM	GROUP	22	FUNGICIDE
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[Bracketed text is optional]
[Bracketed *Italicized text is information for the reviewer*]

AP2™ Fungicide

A FUNGICIDE SEED TREATMENT PRODUCT PROVIDING SYSTEMIC FUNGICIDE PROTECTION AGAINST SEED AND SEEDLING DISEASES CAUSED BY *PYTHIUM*, *PHYTOPHTHORA*, *PLASMOPARA* AND *APHANOMYCES* SPECIES

Active Ingredient	By Wt
Ethaboxam*	34.2%
Other Ingredients	65.8%
Total	100.0%

*(*RS*)-*N*-[cyano(2-thienyl)methyl]-4-ethyl-2-(ethylamino)thiazole-5-carboxamide

AP2™ Fungicide contains 3.2 lb ethaboxam per gallon.

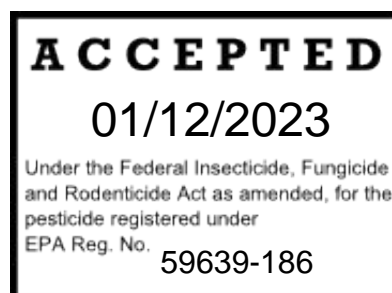
KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE NEXT [PAGE][PANEL][BOOKLET] FOR PRECAUTIONARY STATEMENTS

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EPA Reg. No. 59639-186



PRECAUTIONARY STATEMENTS

CAUTION

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 800-892-0099 for emergency medical treatment information.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Workers loading product, treating seed and conducting maintenance and calibration of the treater must wear: long-sleeved shirt, long pants, socks and shoes, and chemical-resistant gloves made of any waterproof material.

Workers involved with handling treated seed (such as baggers, sewers and bag stackers) must wear: long-sleeved shirt, long pants, socks and shoes.

Workers who load and plant treated seed must wear: long-sleeved shirt, long pants, socks and shoes and chemical-resistant gloves made of any waterproof material when handling treated seed.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates, oysters, and shrimp. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate. Do not apply where runoff is likely to occur. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Apply this product only as specified on label.

Groundwater Advisory

This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Surface Water Advisory

This product may impact surface water quality due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several days after application. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams and springs will reduce the potential loading of ethaboxam from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

Do not enter or allow worker entry into treated areas during the Restricted Entry Interval (REI) of 12 hours.

Exception: Once the seeds are planted in soil, the WPS, under certain circumstances, allows workers to enter the treated area without restriction if there will be no worker contact with the soil subsurface or treated seed. PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil, or water, is: long-sleeved shirt and long pants, socks and shoes, and chemical-resistant gloves made of any waterproof material.

**RISKS OF USING THIS PRODUCT,
LIMITED WARRANTY AND DISCLAIMER,
AND LIMITATION OF LIABILITY**

IMPORTANT: Read the entire Label including this section titled Risks of Using this Product, Limited Warranty and Disclaimer, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

RISKS OF USING THIS PRODUCT

The buyer and user (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

The Directions for Use of this product must be followed carefully. Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential, or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. To the extent consistent with applicable law, Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

LIMITED WARRANTY AND DISCLAIMER

Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label **and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED.** No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

LIMITATION OF LIABILITY

To the fullest extent allowed by law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. TO THE FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

PROMPT NOTICE OF CLAIM

To the extent consistent with applicable law allowing such requirements, Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is later, so that an immediate inspection of the affected property and growing crops can be made.

To the extent consistent with applicable law, if Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

NO AMENDMENTS

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing **Risks of Using This Product, Limited Warranty and Disclaimer, and Limitation of Liability**, which may not be modified by any oral or written agreement.

COMMERCIAL TANK MIXES

NOTICE: Commercial tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor.

Read and follow the entire label of each product to be used in the commercial tank mix with this product.

APPLICATION INSTRUCTIONS

RESTRICTIONS

AP2 Fungicide must be used only in accordance with use instructions on this label utilizing mechanical, slurry or mist-type seed treating equipment, provided that the equipment can be calibrated to apply the product accurately and uniformly to seed. This product is for both commercial and on-farm application. Do not apply this product in a hopper-box or planter-box at planting time. Always mix product thoroughly before use.

Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticides remain in the ethanol by-products that are used in agronomic practice.

Treated seed must be planted into the soil at a minimum depth of 0.5 inch.

As stated by regulations specified in 40 CFR 153.155, all seed treated with *AP2* Fungicide must be colored with an EPA-approved dye or colorant to visually distinguish seed is treated with a pesticide. It is mandatory that such dye or colorant be added into the slurry mixture containing *AP2* Fungicide, prior to application. This regulation is necessary to prevent treated seed from accidental use as a food for man or feed for animals.

MODE OF ACTION

AP2 Fungicide contains ethaboxam, which is a Group 22 fungicide as classified by the Fungicide Resistance Action Committee (FRAC). Its mode of action is the inhibition of cell division.

RESISTANCE MANAGEMENT

For resistance management, please note that *AP2*[™] Fungicide contains ethaboxam, a **Group 22** fungicide. Any fungal population may contain individuals naturally resistant to *AP2*[™] Fungicide and other **Group 22** fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance-management strategies are to be followed.

To delay fungicide resistance, take one or more of the following steps:

- Rotate the use of *AP2*[™] Fungicide or other **Group 22** fungicides within a growing season sequence with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively plan fungicide applications. Note that using predictive models alone is not enough to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance management and/or IPM recommendations for specific crop and pathogens.
- For further information or to report suspected resistance contact **Valent** at 1800-6-VALENT (800-682-5368). You can also contact your pesticide distributor or university extension specialist to report resistance. Valent encourages responsible product stewardship to ensure effective long-term control of the fungal diseases on this label.

SEED QUALITY AND STORAGE OF TREATED SEED

Seed treatments applied to low vigor or poor quality seed or to mechanically damaged seed may result in loss of seed germination or reduced seedling vigor. To verify seed safety, treat a small portion of seed with the desired slurry mixture (*AP2* Fungicide alone or in combination with other commercial seed treatment products) prior to treatment of an entire seed lot. Utilize standard seed germination methodologies to determine and verify seed safety. Use proper storage conditions for treated seed. Due to seed quality and seed storage conditions beyond the control of Valent U.S.A. LLC, no claims are made to guarantee the germination of carry-over treated seed.

SEED BAG TAG

Seed commercially treated with this product must be labeled in accordance with all applicable requirements of the Federal Seed Act. The user of this product is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act.

The Federal Seed Act requires that bags containing treated seed be labeled or tagged with the following information:

- This seed has been treated with *AP2* Fungicide (EPA Reg. No. 59639-186) containing ethaboxam.
- Do not use for feed, food or oil processing.

In addition, the U.S. Environmental Protection Agency requires the following statements on containers of seed treated with *AP2* Fungicide (ethaboxam) :

- Store away from feeds and other foodstuffs.
- Wear long-sleeved shirt, long pants, shoes and socks, and chemical-resistant gloves made of any waterproof material when handling treated seed.
- Dispose of all excess treated seed. Left over treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements. Do not contaminate water bodies when disposing of planting equipment washwaters or rinsate.
- Dispose of seed packaging in accordance with local requirements.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
- Treated seed must be planted into the soil at a minimum depth of 0.5 inch.
- Excess seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by-products that are used in agronomic practices.
- Groundwater Advisory: This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.
- Surface Water Advisory: This product may impact surface water quality due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several days after application. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams and springs will reduce the potential loading of ethaboxam from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.
- DO NOT apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur.

- This seed has been treated with ___X___ lb. of ethaboxam.
- DO NOT apply more than 0.0011 lb of ethaboxam active ingredient per acre per calendar year to alfalfa.
- DO NOT apply more than 0.0118 lb of ethaboxam active ingredient per acre per calendar year to cereal grains crop group 15 (except corn and sorghum).
- DO NOT apply more than 0.0025 lb of ethaboxam active ingredient to corn and 0.0009 lb of ethaboxam active ingredient to sorghum per acre per calendar year.
- DO NOT apply more than 0.0618 lb of ethaboxam active ingredient per acre per calendar year to legume vegetables crop group 6 (except soybean).
- DO NOT apply more than 0.0251 lb of ethaboxam active ingredient per acre per calendar year to soybean.
- DO NOT apply more than 0.0006 lb of ethaboxam active ingredient per acre per calendar year to canola (Rapeseed Subgroup 20A).
- DO NOT apply more than 0.0384 lb of ethaboxam active ingredient per acre per calendar year to sugar beet.
- DO NOT apply more than 0.0018 lb of ethaboxam active ingredient per acre per calendar year to sunflower.
- DO NOT apply more than 0.0023 lb of ethaboxam active ingredient per acre per calendar year to Sunflower subgroup 20B (except sunflower).

PRODUCT INFORMATION

AP2 Fungicide is a systemic fungicide seed protection product for use on a wide range of crops. The active ingredient, ethaboxam, provides protection against Oomycetes including *Pythium* spp., *Phytophthora* spp. and *Aphanomyces* spp. causing seed decay, seedling dieback and root rot.

For best results, use AP2 Fungicide combined with other Oomycete-active seed treatment fungicides, such as metalaxyl or mefenoxam, to broaden the spectrum of activity. In addition, use with a broad-spectrum seed treatment fungicide(s) having activity against *Rhizoctonia solani* and other fungal pathogens inciting seed and seedling disease.

APPLICATION DIRECTIONS

Accurate application of AP2 Fungicide to seed is required for best performance. Thoroughly mix AP2 Fungicide in the desired seed slurry mixture, prior to application to seed. **Pre-test tank mixtures with other seed treatment products to evaluate formulation compatibility and to ensure proper physical compatibility of products. Follow the most restrictive limitations and precautions on labels of all products used in a seed treatment mixture. Do not tank mix with any products which contain a prohibition on tank mixing.**

The following table provides use rates of *AP2* Fungicide by labeled crop, with disease protection guidelines.

Alfalfa	
Disease Protection Claims	Application Rate of <i>AP2</i> Fungicide (fl oz/100 lb seed)
<i>Pythium</i> Seed Decay and Seedling Dieback	0.2 to 0.3 (5 to 7.5 g ai/100 kg seed)
Early season <i>Aphanomyces</i> root rot	0.3 (7.5 g ai/ 100 kg seed)
The maximum yearly total application rate for ethaboxam on alfalfa is 0.0011 lb ai per acre.	

Cereal Grains (except rice and wild rice) [Crop Group 15]	
Barley; buckwheat; millet, pearl; millet, proso; oats; rye; teosinte; triticale; wheat	
Disease Protection Claims	Application Rate of <i>AP2</i> Fungicide (fl oz/100 lb seed)
<i>Pythium</i> Seed Decay and Seedling Dieback	0.2 to 0.3 (5 to 7.5 g ai/100 kg seed) To deliver 5 g ai/100 kg seed, apply 0.015 fl oz per 100,000 seed (equals 0.0017 mg ai/seed) based on 13,000 seed/lb count
The maximum yearly total application rate for ethaboxam on cereal grains crop group 15 (except corn and sorghum) is 0.0118 lb ai per acre.	

Corn (sweet and field); popcorn; sorghum, grain (milo)	
Disease Protection Claims	Application Rate of AP2 Fungicide (fl oz/100 lb seed)
<i>Pythium</i> Seed Decay and Seedling Dieback	<p>0.2 to 0.3 (5 to 7.5 g ai/100 kg seed)</p> <p>Field Corn: To deliver 5 g ai/100 kg seed, apply 0.1 fl oz per 80,000 seed (equals 0.0141 mg ai/seed) based on 1600 seed/lb count</p> <p>Sweet Corn: To deliver 5 g ai/100 kg seed, apply 0.064 fl oz per 100,000 seed (equals 0.0072 mg ai/seed) based on 3150 seed/lb count</p> <p>Popcorn: To deliver 5 g ai/100 kg seed, apply 0.066 fl oz per 100,000 seed (equals 0.0074 mg ai/seed) based on 3061 seed/lb count</p> <p>Sorghum: To deliver 5 g ai/100 kg seed, apply 0.011 fl oz per 100,000 seed (equals 0.0012 mg ai/seed) based on 18,000 seed/lb count</p>
The maximum yearly total application rate for ethaboxam on corn (except sorghum) is 0.0025 lb ai per acre and 0.0009 lb ai per acre on sorghum.	

Legume Vegetables, Succulent or Dried

[Crop Group 6]

Bean (*Lupinus*) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); bean (*Phaseolus*) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean); bean (*Vigna*) (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean); broad bean (fava); chickpea (garbanzo); guar; jackbean; lablab bean (hyacinth bean); lentil; pea (*Pisum* spp) (includes dwarf pea, edible-podded pea, English pea, field pea, garden pea, green pea, snowpea, sugar snap pea); pigeon pea; soybean; soybean (immature seed); sword bean

Disease Protection Claims	Application Rate of AP2 Fungicide (fl oz/100 lb seed)
<i>Pythium</i> Seed Decay and Seedling Dieback Early Season <i>Phytophthora</i> root rot Early Season <i>Aphanomyces</i> root rot	<p style="text-align: center;">0.3 to 0.6 (7.5 to 15 g ai/100 kg seed)</p> <p>Soybean: To deliver 7.5 g ai/100 kg seed, apply 0.15 fl oz per 140,000 seed (equals 0.0121 mg ai/seed) based on 2800 seed/lb count.</p> <p>Bean: To deliver 7.5 g ai/100 kg seed, apply 0.187 fl oz per 100,000 seed (equals 0.0212 mg ai/seed) based on 1600 seed/lb count.</p> <p>Pea: To deliver 7.5 g ai/100 kg seed, apply 0.094 fl oz per 100,000 seed (equals 0.0106 mg ai/seed) based on 3181 seed/lb count.</p>

The maximum yearly total application rate for ethaboxam on legume vegetables crop group 6 (except soybean) is 0.0618 lb ai per acre and 0.0251 lb ai per acre for soybean.

CANOLA [Rapeseed Subgroup 20A]

[Borage; crambe; cuphea; echium; flax seed; gold of pleasure; hare's ear mustard; lesquerella; lunaria; meadowfoam; milkweed; mustard seed; oil radish; poppy seed; rapeseed (including canola); sesame; sweet rocket; cultivars, varieties, and/or hybrids of these]

Disease Protection Claims	Application Rate of AP2 Fungicide (fl oz/100 lb seed)
<i>Pythium</i> Seed Decay and Seedling Dieback	<p style="text-align: center;">0.2 to 0.3 (5 to 7.5 g ai/100 kg seed)</p>

The maximum yearly total application rate for ethaboxam on canola (Rapeseed subgroup 20A) is 0.0006 lb ai per acre.

SUGAR BEET	
Disease Protection Claims	Application Rate of AP2 Fungicide fl oz/ seed unit*
<i>Pythium</i> Seed Decay and Seedling Dieback	0.014 to 0.35 fl oz/ seed unit (0.16 to 4 g ai/ seed unit)
<i>Aphanomyces</i> spp.	0.35 fl oz/ seed unit (4 g ai/ seed unit)
Incorporate AP2 Fungicide into pelleting process for application to sugar beet seed. *A seed unit is 100,000 seeds.	
The maximum yearly total application rate for ethaboxam on sugar beet is 0.0384 lb ai per acre.	

SUNFLOWER	
Disease Protection Claims	Application Rate of AP2 Fungicide
<i>Pythium</i> Seed Decay and Seedling Dieback Downy Mildew (<i>Plasmopara halstedii</i>)	0.075 to 0.1 mg ai/seed Do not exceed 6 fl oz/100 lb seed or 150 g ai/100 kg seed. For example: to deliver 0.075 to 0.1 mg ai/seed, based on a seed count of 6,500 seeds per lb, use 4.3 to 5.7 fl oz/100 lb seed, equivalent to 107 to 143 g ai/100 kg seed. Adjust fl oz/100 lb seed according to number of seeds/lb to deliver target rate of 0.075 to 0.1 mg ai/seed.
The maximum yearly total application rate for ethaboxam on sunflower is 0.0018 lb ai per acre.	

SUNFLOWER SUBGROUP 20B (Except Sunflower)	
Calendula; castor oil plant; Chinese tallowtree; euphorbia; evening primrose; jojoba; niger seed; rose hip; safflower; stokes aster; tallowwood; tea oil plant; vernonia; cultivars, varieties, and/or hybrids of these.	
Disease Protection Claims	Application Rate of AP2 Fungicide (fl oz/100 lb seed)
<i>Pythium</i> Seed Decay and Seedling Dieback	0.2 to 0.26 (5 to 6.5 g ai/100 kg seed) To deliver 5 g ai/100 kg seed, apply 0.015 fl oz per 100,000 seed (equals 0.0017 mg ai/seed) based on seed count of 13,000 seeds per lb
The maximum yearly total application rate for ethaboxam on Sunflower subgroup 20B (except sunflower) is 0.0023 lb ai per acre.	

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE

Keep pesticide in original container.

Store in a dry place away from excessive heat.

Do not store near food or feed.

Do not put pesticide into food or drink containers.

Not for use or storage around the home.

To close package, replace and tighten cap to form an airtight seal.

PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING

[Use the following statement for containers equal to or less than 5 gallons]

[Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Add water – at least 2% of the container volume, and up to 1/3 of the volume of water needed to make the proper slurry composition with a maximum of 1/4 of the container volume – and recap. Shake for 30 seconds. Pour rinsate into a rinsate collection system for disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available; otherwise dispose of in a sanitary landfill or other procedures allowed by State and local authorities.]

[Use the following statement for rigid nonrefillable containers greater than 5 gal or 50 lb]

[Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Add water – at least 2% of the container volume, and up to 1/3 of the volume of water needed to make the proper slurry composition with a maximum of 1/4 of the container volume. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 60 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into a rinsate collection system for disposal. Repeat this procedure two more times. Offer for recycling, if available; otherwise dispose of in a sanitary landfill or other procedures allowed by State and local authorities.]

[Use the following statement for all refillable container types]

[Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents into application equipment or mix tank. Add water – at least 2% of the container volume, and up to 1/3 of the volume of water needed to make the proper slurry composition with a maximum of 1/4 of the container volume. Replace and tighten closure. Agitate vigorously or recirculate the rinsate with a pump for at least 2 minutes ensuring that the rinsate rinses the walls of the container. Empty the rinsate into a rinsate collection system for disposal. Repeat this rinsing procedure two more times. Offer for recycling, if available; otherwise dispose of in a sanitary landfill or other procedures allowed by State and local authorities.]

[NOTE TO REVIEWER: Making the product more restrictive than Federally accepted by incorporating the optional statement “Not for use in California”, may be included on the container label for any use, weed/pest or crop as determined to be necessary to procure California registration.]

©2023 Valent U.S.A. LLC

AP2 is a trademark of Valent U.S.A. LLC

Manufactured For:

Valent U.S.A. LLC

P. O. Box 5075

San Ramon CA 94583

(800)-682-5368

Made in U.S.A.

EPA Reg. No. 59639-186

EPA Est. No.

059639-00186.20230111.AP2Fungi.AMEND.Alfalfa.Clean

Supplemental Label



ACCEPTED

01/12/2023

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 59639-186

ETHABOXAM	GROUP	22	FUNGICIDE
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AP2™ Fungicide **EPA Reg. No. 59639-186**

AP2 FUNGICIDE FOR USE ON ALFALFA

This supplemental label expires on June 22, 2025 and must not be used
or distributed after this date.

DIRECTIONS FOR USE

**It is a violation of Federal law to use this product in a manner inconsistent with its
labeling.**

**THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF
APPLICATION. READ THE LABEL AFFIXED TO THE CONTAINER FOR AP2 FUNGICIDE
BEFORE APPLYING. USE OF AP2 FUNGICIDE ACCORDING TO THIS LABELING IS
SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL
AFFIXED TO THE CONTAINER FOR AP2 FUNGICIDE.**

SEED BAG TAG

Seed commercially treated with this product must be labeled in accordance with all applicable
requirements of the Federal Seed Act. The user of this product is responsible for ensuring that
the seed bag meets all requirements under the Federal Seed Act.

The Federal Seed Act requires that bags containing treated seed be labeled or tagged with the
following information:

- This seed has been treated with AP2 Fungicide (EPA Reg. No. 59639-186) containing
ethaboxam.
- Do not use for feed, food or oil processing.

In addition, the U.S. Environmental Protection Agency requires the following statements on
containers of seed treated with AP2 Fungicide (ethaboxam):

- Store away from feeds and other foodstuffs.
- Wear long-sleeved shirt, long pants, shoes and socks, and chemical-resistant gloves made of
any waterproof material when handling treated seed.
- Dispose of all excess treated seed. Left over treated seed may be double-sown around the
headland or buried away from water sources in accordance with local requirements. Do not
contaminate water bodies when disposing of planting equipment washwaters or rinsate
- Dispose of seed packaging in accordance with local requirements.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated
seeds spilled during loading.

- Treated seed must be planted into the soil at a minimum depth of 0.5 inch.
- Excess seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by-products that are used in agronomic practices.
- Groundwater Advisory: This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.
- Surface Water Advisory: This product may impact surface water quality due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several days after application. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams and springs will reduce the potential loading of ethaboxam from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.
- DO NOT apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur.
- This seed has been treated with __X__ lb. of ethaboxam.
- DO NOT apply more than 0.0011 lb of ethaboxam active ingredient per acre per calendar year to alfalfa.

Alfalfa	
Disease Protection Claims	Application Rate of AP2 Fungicide (fl oz/100 lb seed)
<i>Pythium</i> Seed Decay and Seedling Dieback	0.2 to 0.3 (5 to 7.5 g ai/100 kg seed)
Early season <i>Aphanomyces</i> root rot	0.3 (7.5 g ai/ 100 kg seed)
The maximum yearly total application rate for ethaboxam on alfalfa is 0.0011 lb ai per acre.	

PLEASE CONTACT VALENT U.S.A. LLC AT 800-6-VALENT (682-5368) TO DETERMINE IF THIS USE IS REGISTERED IN YOUR STATE.

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Manufactured for:
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